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57, 4, 9, 60. *Syringa*, , - , . : . (Syringa) RAPD ISSR- - . . - . STR- , , , . : - , - (, , - , -). , , , . *Syringa vulgaris* (*in vitro*).

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ABSTRACT

Diploma work 57 pages, 4 figures, 9 tables, 60 sources.

Syringa, genetic markers , the establishment of plant collections , DNA marker systems , genetic certification .

Object of research: grades of a lilac introduced in Belarus. Objective of the given work is the analysis of a genetic diversity of lilac (*Syringa*) varieties by means of RAPD and ISSR-systems of DNA-fingerprinting.

Today conducting genetic certification is considered an urgent task of modern plant selection. In the world practice for the certification of individual breeds and certification facilities in agriculture and forestry are mainly used DNA-markers. This nuclear elements, generally microsatellites, STR- called markers or the DNA sequence bounded by inverted repeats.

As a result of carried out research the procedure on allocation of DNA has been mastered, optimum conditions of carrying out polymerase chain reaction for lilac cultivars are carried out, picked up primers, effectively revealing polymorphism of DNA for used objects. Was it is carried our electrophoresis of products of amplification in agarose gel and multilocus genetic passports of *Syringa vulgaris* cultivars of CBG selection (a collection *in vitro*) has been created.